

US EPA ARCHIVE DOCUMENT

6/7/79

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Validation Sheet

Formulation: 95.06%

Chemical Name: Rhodia I prodione Technical

Validator: Ray Matheny

Date: 6/7/79

Test Type: Fish Acute Toxicity 96-hr LC₅₀

Test I.D. #: UCES Proj. No. 11506-48-03

Citation: Calmbacher, C.W., et al., May 31, 1978. The Acute Toxicity of RP 26019 Technical Assay 95.06%. Lot # 77103-01 to the Rainbow Trout (Salmo gairdneri). Prepared for Rhodia, Inc. Prepared by Union Carbide Environmental Services, Union Carbide Corp. (within Accession No. 234810, 9/1/78).

Validation Category: ~~Invalid~~ *Supplemental and suitable for registration purposes on a case-by-case basis. JDF*

Result:	<u>Species</u>	<u>Test</u>	<u>Confidence Limits</u>
	Rainbow Trout	Fish Acute 96-hr LC ₅₀ : 4.2 mg/l*	N/A

* As determined by registrant, reportedly using the Spearman-Karber Estimator method.

Validation Category Rationale: Using the binomial test method, the LC₅₀ was determined to be 4.2 mg/l. There were no partial mortalities at any of the five concentrations used. One treatment other than the control should have killed or affected less than 37% of the fish exposed to it and one treatment should have killed or affected more than 63% of the fish.

Category Repairability/Rationale: This test cannot be upgraded to core.

Abstract: Standard test procedures were used: Reconstituted water has a pH of 7.24, total hardness of 42 mg/l as CaCO₃, and an alkalinity of 20 mg/l as CaCO₃. Five concentrations, a control and solvent control was used with ten fish at each concentration: 1.0, 1.8, 3.2, 5.6 and 10.0 mg/l. 100% mortality was reported at the two highest levels. No concentration produced partial mortalities. Fish were maintained @ 13° C. Dissolved oxygen ranged from 6.3 to 8.3 mg/l among test groups, pH values varied from 7.28 to 6.97. At the

3.2 mg/l concentration fish became irritated and exhibited abnormal surfacing behavior and erratic swimming.